

WHAT IS CLAIMED IS:

1. A composition for wound healing in a patient comprising placental alkaline phosphatase and a gel-forming material.
2. The composition of claim 1 wherein the composition comprises an effective amount of placental alkaline phosphatase for stimulating proliferation of fibroblasts.
3. The composition of claim 1 further comprising a growth factor or a growth promoting serum factor.
4. The composition of claim 1 further comprising a growth factor selected from the group consisting of PDGF, EGF, FGF, TGF-a, IGF-I, insulin and combinations thereof.
5. The composition of claim 1 further comprising serum.
6. The composition of claim 1 further comprising an growth promoting serum factor.
7. The composition of claim 1 wherein the gel-forming material is selected from the group consisting of methyl cellulose, agar, agarose, gelatin, calcium alginate and combinations thereof.

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8. The composition of claim 1 wherein the concentration of the placental alkaline phosphatase is between about 0.001 and about 1 mg/1 gram product.

9. The composition of claim 1 wherein the concentration of the placental alkaline phosphatase is between about 0.01 and about 0.5 mg/1 gram product.

10. The composition of claim 1 further comprising an additive selected from the group consisting of a preservative, a buffer, an antibiotic and a moisture controller.

11. A composition for stimulating cell proliferation comprising placental alkaline phosphatase and a proliferation compound selected from the group consisting of a growth factor, a growth promoting serum factor and mixtures thereof.

12. The composition of claim 11 wherein the proliferation compound comprises PDGF.

13. The composition of claim 12 wherein the proliferation compound further comprises insulin or IGF-I.

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14. The composition of claim 12 wherein the proliferation compound comprises a proliferation promoting serum factor.

16. A method for accelerating wound healing comprising applying a composition to the wound, the composition comprising placental alkaline phosphatase.

17. The method of claim 16 wherein the composition further comprises a non-toxic carrier.

18. The method of claim 16 wherein the composition further comprises a growth factor or a growth promoting serum factor.

19. The method of claim 16 wherein the applying of the composition comprises topical administering of the composition.

20. The method of claim 16 wherein the applying of the composition comprises transdermal administering of the composition.

21. The method of claim 16 wherein the composition further comprises a gel forming material.

22. A method for stimulating proliferation of cells in a cell culture, the method comprising contacting the cells with a composition, the

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23. The method of claim 22 wherein the cells are fibroblasts.

25. The method of claim 22 wherein the cells are contacted with a growth factor.

27. The method of claim 22 wherein the proliferation compound comprises a growth factor.